

The Environmental Impact of Bitcoin Mining: The Facts

Despite media headlines around the environmental impact of Bitcoin mining, the truth about its sustainability, energy consumption, and carbon footprint is one of an industry ahead of others with respect to decarbonization.

All data in this document is based on the [Bitcoin Mining Council's Global Bitcoin Mining Data Review \(Q4 '22\)](#).

Sustainability

The global Bitcoin mining industry is a leader in sustainability, utilizing electricity with a 58.8% sustainable power mix.

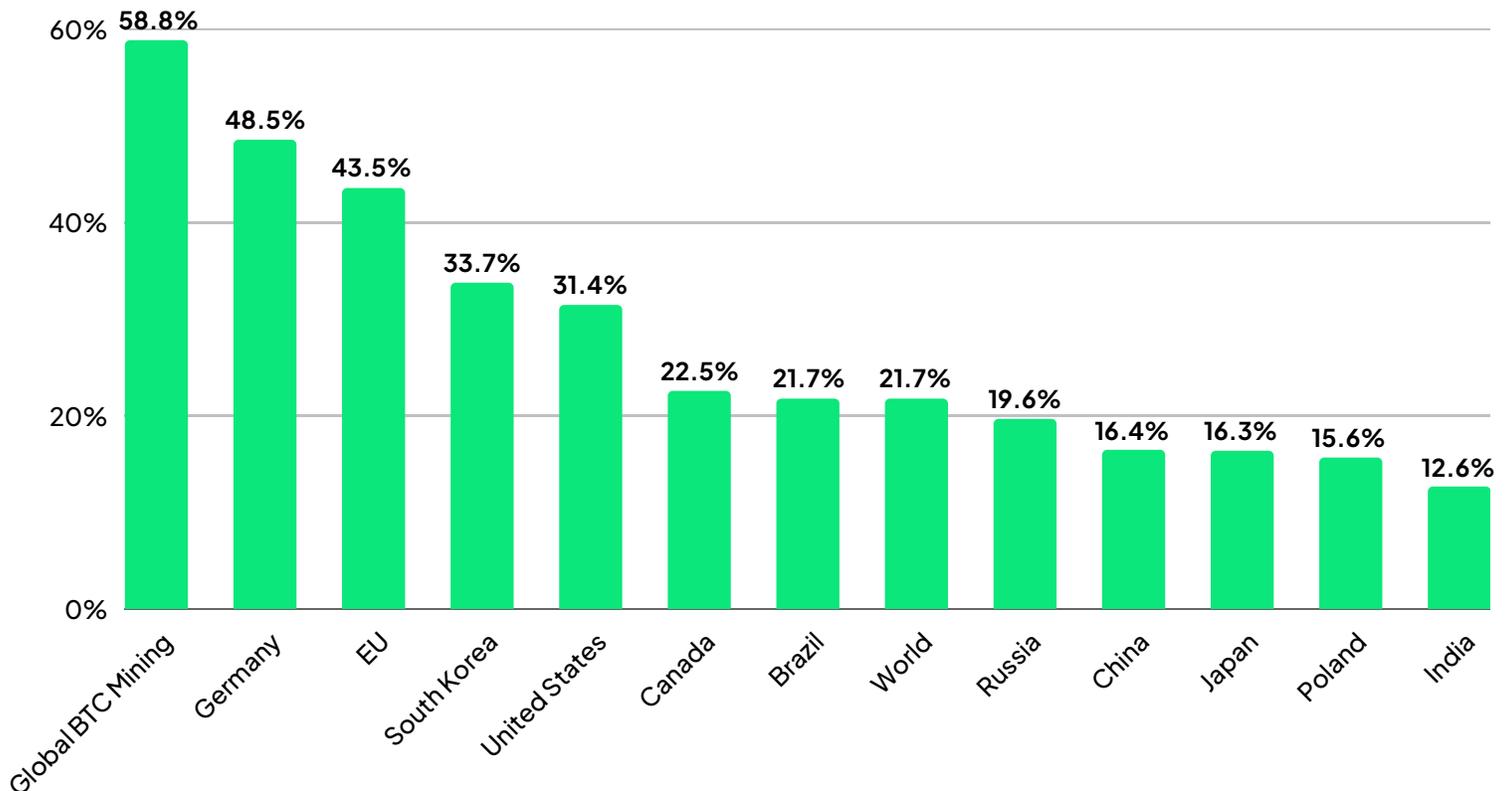
Consumption

Global BTC mining consumes significantly less energy than other industries, such as finance and insurance.

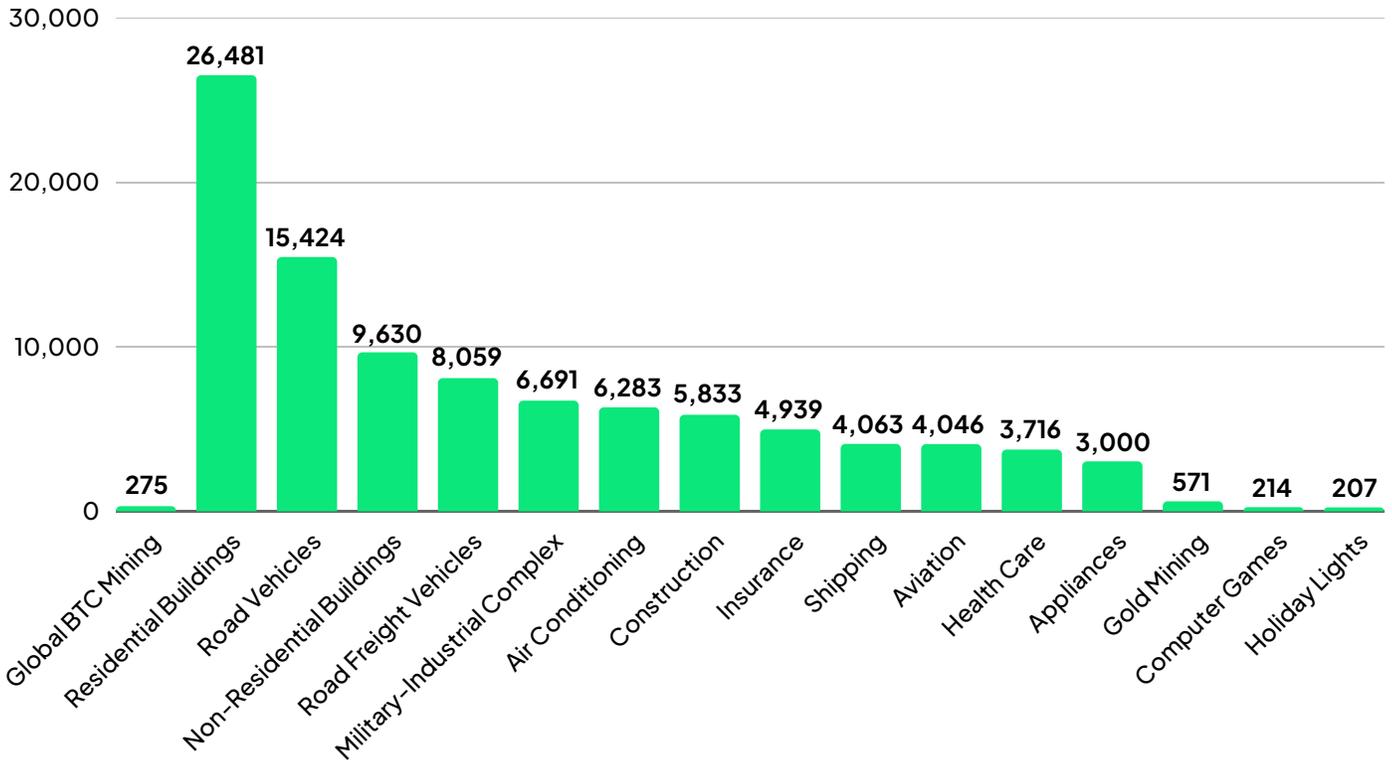
Emissions

Bitcoin mining uses an insignificant amount of global energy (17bps) and generates negligible carbon emissions (11bps).

Sustainable Power Mix: Bitcoin Mining vs. Other Countries (% of TWh)



Global Bitcoin Mining Energy Use Vs. Other Industries



Bitcoin Mining Energy Use Vs. Total Global Energy Use

165,317 TWh

Total Energy Utilized Worldwide

275 TWh

Energy Consumed by Bitcoin Mining on the World's Electric Grid

0.17%

Of the World's Energy Production is Consumed by Global Bitcoin Mining



Bitcoin Mining CO² Emissions Vs. Total Global CO² Emissions

34.8 BMt

Total Estimated CO² Generated Globally

0.04 BMt

Estimated CO² Generated by Bitcoin Mining on the World's Electric Grid

0.107%

Of the World's CO² Production is from Global Bitcoin Mining